Plate Tectonics Study Guide

<u>Directions</u>: Write the term that best fits the description/definition. My advice is to try this without a word bank first. When you have finished as many as you can, then use the list of terms to finish up.

A. The deformation of rock layers due to compressive forces and heat.

B. Fracture in rock caused by stress.

C. Last (most recent time) Earth was once a large single landmass, means "all lands" in Greek.

D. A tectonic plate boundary in which two plates come together.

E. The Earth's surface layer consisting of the topmost rigid portion of the mantle plus oceanic and continental crusts.

F. A tectonic plate boundary in which two plates move apart.

G. A boundary in which two plates slip past one another.

H. Circular movement of mantle material (caused by differences in temperature) resulting in tectonic plate movement.

I. The process in which old ocean floor is pushed away from a mid-ocean ridge by the formation of a new ocean floor.

J. Types of Earth's crust.

K. Zone between two diverging tectonic plates.

L. Landform created when continental plates collide and continental crust is pushed together and upward.

M. Landform created when two oceanic plates collide and the denser of the two plates is subducted. *Example: Japan*

N. A large undersea mountain chain where new ocean floor is produced.

O. The theory that the Earth is made up of plates that through continental drift and ocean floor spreading has moved and continue to move.

P. Molten rock beneath the Earth's surface.

Q. V shaped valley on the ocean floor where old (and denser/heavier) ocean floor is subducted.

R. Preserved remains or traces of ancient organisms.

S. The process in which crust plunges back into the interior of the Earth.

WORD BANK:

Convection Current

Convergent Plate Boundary

Divergent Plate Boundary

Fault

Folding

Fossils

Island Arcs

Lithosphere

Magma

Mid-Ocean Ridge

Mountain Ranges

Pangaea

Oceanic & Continental

Ocean-Floor Spreading

Rift

Subduction

Theory of Plate Tectonics

Transform Fault

Trench